

3M™ Scotchkote™ Urethane Repair Paste 165TG

Data Sheet and Application Guide

Product Description

Scotchkote Urethane Repair Paste 165TG has been specifically developed as a 100% solids protection and repair system with a degree of flexibility for application to the externals of pipes. The product can be used for protection of field girth weld joints on pipeline systems or repairs to damage on external pipe coating systems.

Not For Use With Potable Water Applications.

Product Features

Scotchkote Urethane Repair Paste 165TG combines good application characteristics with excellent corrosion protection and chemical resistance. It is designed for application by stiff brush, trowel or spatula at thicknesses up to 6mm. Scotchkote Urethane Repair Paste 165TG is fully compatible with all spray grades of Scotchkote Urethane Coating 165.

Scotchkote Urethane Repair Paste 165TG is primarily designed for use on steel surfaces but also exhibits good adhesion to polyethylene and other common external pipe coating materials, and can also be used on concrete surfaces in combination with 3M™ Scotchkote™ Urethane Sealer 165CS.

- **Adhesion**—Excellent to both blast cleaned and mechanically scraped surfaces.
- **Corrosion Resistance**—Excellent even under aggressive immersion conditions.
- **Chemical Resistance**—Virtually unaffected by most industrial chemicals.

General Application Steps

1. Remove oil, grease and loosely adhering deposits.
2. Abrasive blast clean steel surfaces to NACE No. 2/SSPC-SP10 near white metal, ISO 8501:1, Grade SA2½. Scarify or lightly blast concrete surfaces and seal with Scotchkote Urethane Sealer 165CS.
3. Apply Scotchkote Urethane Repair Paste 165TG at the specified thickness.
4. Allow to cure.
5. Visually or electrically inspect the coating for defects.
6. Repair all defects.

Properties

Property	Value
Colour	12B21
Ratio	3:1 By volume 3:1 By weight
Drying & Cure times at 20°C (68°F)	
Useable life	10 mins
Touch Dry	1½ hour
Hard Dry	3½ hours
Full Cure	7 days
Volume Solids	100%
Specific Gravity	1.2
Film Thickness	Up to 6 mm.
Theoretical Coverage Rate	0.8 sq metre per kilo at 1000 microns dft. 2 sq metres per litre at 500 microns dft
Performance Data	
Tensile Strength	19.5Mpa (2825 psi) (ASTM D412)
Dielectric Strength	> 20KV (ASTM D149)
Maximum Operating Temperature	80°C (176°F) - Dry 50°C (122°F) - Wet
Elongation	35% (ASTM D412)
Abrasion Resistance	96mgm (0.08ml) loss per 1000 cycles 1kg load CS17 Wheel (ASTM D4060)
Shore D Hardness	80 (ASTM D2240)
Corrosion Resistance	Unaffected after 5000 hours exposure (ASTM B117)
Impact Resistance	20 Joules (175 ins lbs) (ASTM D256)
Flexibility	30% (ASTM D522-4)
Standards Met	GBE/CW6 Pt 1



Application Procedures for 3M™ Scotchkote™ Urethane Repair Paste 165TG

Surface Preparation

Steel Surfaces

Steel surfaces should be abrasive blasted to NACE No 2/SSPC-SP10 near white metal, ISO 8501:1 Grade Sa2½. The blast profile is generally specified by the client; a typical profile is 75–100 microns.

Concrete Surfaces

Surfaces should be lightly abrasive blasted or mechanically scarified, taking care not to expose the aggregate. All dust and loose residue should then be removed and surfaces then sealed using 3M™ Scotchkote™ Urethane Sealer 165CS.

Mixing

The contents of the Part A (Base) container should be stirred, and while stirring, the contents of the Part B (Activator) container should be added with stirring continuing until a homogenous mix is achieved.

Application Procedures

Scotchkote Urethane Repair Paste 165TG should not be applied when the relative humidity exceeds 90% or when the surface to be coated is less than 3°C above the dew point.

Handling and Safety Precautions

Read all health hazard, precautionary and first aid statements found in the Material Safety Data Sheet, and/or product label prior to handling or use.

Ordering Information/Customer Service

For ordering, technical and product information or to request a copy of the Material Safety Data Sheet, call +44 (0)1609 780170 or fax +44 (0)1609 783762 (Sales) or 788718 (Technical).

For emergencies, please contact +44 (0)1344 858000.

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3M warrants that the 3M™ Scotchkote™ Product will conform to 3M published specifications upon shipment. If the product is proven not to have met the specifications your exclusive remedy within 12 months of sale by 3M of the product and 3M's sole obligation will be, at 3M's option, to replace the Product or to refund the purchase price of the Product. Except where prohibited by law, this warranty is made in lieu of all other warranties, express or implied, including, but not limited to, any implied warranty of suitability or fitness for a particular purpose, or those arising from a course of dealing, custom or usage or trade.

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